OOP Assignment 5

Due: 11:59 p.m., 8 April 2016

Problem. Redo homework assignment 4 using the code of [2016-0330](2016-0330.zip) as a basis. Basically, you will use the new Vector class in all tests in the project “utDotProduct” and the production code in project “product dot”. Refer to the steps in the article [Inner product, round 4: refactoring into object](http://htsicpp.blogspot.tw/2014/09/inner-product-round-4-refactoring-into.html).

T1(60%) Complete following function:

**length( Vector v),**

**product\_scalar( Vector v , int** *a***),**

**sum(Vector u, Vector v),**

**product\_dot(Vector u, Vector v)**

T2(10%) Test the product\_dot (normal and exceptional) by adding Vector unit tests.

T3(10%) Test the sum (normal and exceptional) by adding Vector unit tests.

T4(10%) Test the scalar (normal and exceptional) by adding Vector unit tests.

T5(10%) Test the length (normal and exceptional) by adding Vector unit tests.